

PRE-ENGINEERING TECHNOLOGY

MINIMUM EQUIPMENT LIST

Instructional Equipment and Software

	Count 15	Count 20	Count 25	Description/Specification	
Item Name	Students	Students	Students	Description/Specification {Indicates PLTW Description}	
Television/VCR/DVD	1	1	1	25"	
Overhead Projector with		•	·	25	
Screen	1	1	1		
A/V Cart/Media Storage					
Center	1	1	1		
Introduction to Engineerin					
Computer, Laptop	4	4	4	Pentium III, 1GHz, Windows 2000, See detailed specs in PLTW purchasing manual. *Compatible with Autodesk	
(Teacher's)	1	1	1	Inventor 5.3 & Windows 2000 Software	
Computer	20	20	25	Pentium III,1GHz, Windows 2000 See detailed specs in PLTW purchasing manual. *Compatible with Autodesk Inventor 5.3 & Windows 2000 Software	
Computer Hub, Ethernet	2	2	2	3COM 16 Port 10-BT, 16 connections	
Computer Printer	1	1	2	{HP Laserjet 5000N}	
				42" Print width, 96 MB memory, Ethernet adapter, and 1EEE-1284	
Computer Printer	1	1	1	A-B cable {HP DesignJet 800}	
Toner Cartridge, Printer	1	1	2	{For HP Laserjet 5000N printer}	
Projector, LCD	1	1	1	1300 lumens, 800 x 600 SVGA, 1080 x 720 XGA {Infocus LP 340} or 800 lumens, 1024 x 768 XGA, SXGA compatible {LIGHTWARE LX*}	
Work Station, Computer	10	10	15	Computer (2 students), 30" x 60" { Virco 84265}	
Caliper, Dial	20	20	25	6" {Starrett 12-2234}	
Table	10	10	15	High pressure laminate top, 30" x 60" {Virco 8774}	
Table, Folding	10	10	15	High pressure laminate top, 30" x 96" {Virco 62308}	
PLTW Software Bundle (First Year)	1	1	1	{Inventor 5.3, Circuit Maker, Mastercam, Eshed Robotic Robocell}	
Digital Electronics	l				
Breadboard Trainer, Electronic	13	13	13	{Briefcase Martek XK -700}	
Integrated Circuit Kit	2	2	2	See detailed specs in PLTW purchasing manual	
Programmer	1	1	1	Windows based {EMP-11 PLD}	
Oscilloscope	1	1	1	20 MHz, Dual Trace {Kelvin KBL 740085}	
PRINCIPLES OF ENGINEERING					
Pneumatic Trainer	1	1	1	{Discovery I w/t CAI Software Shortess-Rawson # D1000}	
Hydraulic Trainer	1	1	1	{Discovery II w/t CAI Software Shortess-Rawson # D2000}	



Count	Count	Count	Description/Consideration		
. •			Description/Specification {Indicates PLTW Description}		
1	1	1	{Discovery III w/t CAI Software Shortess-Rawson # D3000}		
4	4	5	See detailed specs in PLTW purchasing manual {Fischertechnik Kit, PLTW-POE}		
1	1	1	Complete with Safety Enclosure, Windows based software and OS		
1	1	1	Tensile Tester and Top Loading Adapter for Structural Stress Analyzer		
5	5	8	{Fishertechniks Extension (slave) unit with power supply}		
5	5	8	{Fishertechniks serial interfaces with power supply}		
1	1	1	Portable {Digimatic DP-1HS}		
MANUFAC	TURING				
1	1	1	Automated Manufacturing Package, See detailed specs in PLTW purchasing manual		
5	5	8	{Fishertechniks serial interfaces with power supply}		
5	5	8	{Fishertechniks extension slave unit with power supply}		
4	4	4	See detailed specs in PLTW purchasing manual {Fischertechnik Kit, *PLTW-CIM}		
2	2	2	Multi-Purpose, 30" x 60", 3/4" Maple top, heavy metal legs {PP63-2908}		
1	1	1	9 Drawer Roller Base, 26" x 12" 19" {PP19-1196}		
CLASSROOM FURNISHINGS					
1	1	1	Total Estimated Cost, See Below		
	15 Students 1 4 1 1 5 5 1 MANUFAC 1 5 4 2 1 SS	15	15 Students 20 Students 25 Students 1 1 1 4 4 5 1 1 1 1 1 1 5 5 8 5 5 8 1 1 1 5 5 8 5 5 8 5 5 8 5 5 8 4 4 4 2 2 2 1 1 1 5 5 8 4 4 4 2 2 2 1 1 1		